Amendment after Allowance U.S. Pat. Appl. No. 10/706,256 Page 3

## AMENDMENT TO THE SPECIFICATION:

Please amend the paragraph bridging pages 3 and 4 as follows:

The inverter receives dc power from a dc source, 51, a filtering capacitor,  $C_1$  is provided across the dc source input. In addition, a gate driver circuit 53 is provided to turn on or off the semiconductor switches,  $S_1$ - $S_{10}$  according to the control signals generated by the processor control circuit 54. A dc source 52 provides the dc bus voltage and this voltage is sensed through voltage sensor  $\frac{53}{58}$  which is electrically connected to processor control circuit 54.

Please amend the paragraph bridging pages 4 and 5 as follows:

single control typically based circuit, Α microprocessor or digital signal processor (DSP) 54, may be execute control algorithms for the to motors/generators 57, 62. With a proper control algorithm, the motors/generators 57, 62 can be run in either motoring mode, i.e., providing power to the motor shaft, or generating mode, in which power is transferred from the motor shaft to the inverter The motor/generator machines 57, 62 can be ac dc source. synchronous machines, ac induction machines or permanent magnet machines. Voltage and current sensors 53 58, 56 may be used, if necessary, to measure the dc bus voltage and motor/generator currents, respectively. Other sensors such as speed sensors, position sensors or thermocouples may also be employed.